

What is claimed is:

1. A network system comprising:

a center;

a relay station device; and

a terminal communicating with said center

5 via said relay station device, and

wherein said relay station device has a

first function for directly communicating with

said center and a second function for

communicating with said center via another relay

10 station.

2. The network system according to Claim 1,

wherein one of a first operating mode for

executing said first function and a second

operating mode for executing said second function

5 is set to said relay station device, and

wherein a communication quantity of said

relay station device is equal to or greater than a

threshold value, said relay station device is set

to said first operating mode.

3. The network system according to Claim 2,

wherein when said first operating mode is set to

said relay station device and said communication

quantity of said relay station device is less than

5 said threshold value, said relay station device is

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switched from said first operating mode to said second operating mode.

4. The network system according to Claim 1, wherein one of a first operating mode for executing said first function and a second operating mode for executing said second function is set to said relay station device, and

wherein said relay station device cannot communicate with a host station including said another relay station, said relay station device is set to said first operating mode.

5. The network system according to Claim 4, wherein when said first operating mode is set to said relay station device and said relay station device can communicate with said host station, said relay station device is switched from said first operating mode to said second operating mode.

6. The network system according to Claim 4, wherein when said relay station device cannot communicate with said host station including said another relay station, said relay station device outputs a communication stop signal indicating said host station to said center, and

wherein when said host station can

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communicate with said relay station device, said
host station outputs to said center a recovery
10 declaration signal indicating that said host
station can communicate with said relay station
device, and

wherein said center outputs to said relay
station device a recovery notification signal
15 indicating that said host station is communicable
based on said communication stop signal and said
recovery declaration signal, and

wherein said relay station device is
switched from said first operating mode to said
20 second operating mode in response to said recovery
notification signal.

7. A network system, comprising:

a center;

a first relay station device;

a second relay station device provided
5 between said center and said first relay station
device; and

a terminal communicating with said center
via said first and second relay station devices,
and

10 wherein said first relay station device has
a first function for directly communicating with
said center and a second function for

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communicating with said center via said second
relay station device and another relay station,
15 and

wherein said second relay station device
transmits to said first relay station device a
communication quantity data indicating a
communication quantity in said second relay
20 station device, and

wherein said first relay station device is
set to one of a first operating mode for executing
said first function and a second operating mode
for executing said second function based on said
25 communication quantity data.

8. A network system, comprising:

a center;

a relay station device; and

a terminal communicating with said center
5 via said relay station device, and

wherein said relay station device has a
first function for directly communicating with
said center and a second function for
communicating with said center via another relay
10 station, and

wherein one of a first operating mode for
executing said first function and a second
operating mode for executing said second function

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is set to said relay station device in response to
15 a message indicating mode switching transmitted
from a slave station including said terminal.

9. The network system according to Claim 1,
wherein a mobile communication network line is
used for communication between said another relay
station and said center, and

5 wherein at least one of communication
between said relay station device and said another
relay station and communication between said relay
station device and said terminal is made through
direct communication between terminals.

10. The network system according to Claim 7,
wherein a mobile communication network line is
used for communication between said another relay
station and said center, and

5 wherein at least one of communication
between said relay station device and said another
relay station and communication between said relay
station device and said terminal is made through
direct communication between terminals.

11. The network system according to Claim 8,
wherein a mobile communication network line is
used for communication between said another relay

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station and said center, and

5 wherein at least one of communication
between said relay station device and said another
relay station and communication between said relay
station device and said terminal is made through
direct communication between terminals.

12. A relay station device, comprising:

 a relay unit relaying communication between
a center and a terminal;

 a first executing unit executing a first
5 function for directly communicating with said
center; and

 a second executing unit executing a second
function for communication with said center via
another relay station.

13. The relay station device according to Claim
12, wherein one of a first operating mode for
executing said first function and a second
operating mode for executing said second function
5 is set to said relay station device, and

 wherein when a communication quantity of
said relay station device is equal to or greater
than a threshold value, said relay station device
is set to said first operating mode.

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14. The relay station device according to Claim
12, wherein one of a first operating mode for
executing said first function and a second
operating mode for executing said second function
5 is set to said relay station device, and

wherein when said relay station device
cannot communicate with a host station including
said another relay station, said relay station
device is set to said first operating mode.

15. The relay station device according to Claim
13, wherein when said relay station device cannot
communicate with a host station including said
another relay station, said relay station device
5 is set to said first operating mode.

16. The relay station device according to Claim
12, wherein said relay station device is set to
one of a first operating mode for executing said
first function and a second operating mode for
5 executing said second function, and

wherein said relay station device is set to
one of said first operating mode and said second
operating mode in response to a message indicating
mode switching received from a slave station
10 including said terminal.

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20. The relay station device according to Claim 13, wherein a mobile communication network line is used for communication between said another relay

station and said center, and

- 5 wherein at least one of communication
between said relay station device and said another
relay station and communication between said relay
station device and said terminal is made through
direct communication between terminals.

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